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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,147	01/21/2002	Nobuhiro Itoh	2271/66652	5134
7	590 02/08/2006		EXAMINER	
RICHARD F.	JAWORSKI	WORKU, NEGUSSIE		
Cooper & Dunham LLP 1185 Avenue of the Americas			ART UNIT	PAPER NUMBER
New York, NY 10036			2626	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/054,147	ITOH, NOBUHIRO			
Office Action Summary	Examiner	Art Unit			
	Negussie Worku	2626			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 05 De	ecember 2005.				
·_ · · · · · · · · · · · · · · · · · ·	action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ acce	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.				
Applicant may not request that any objection to the	•	` '			
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex		• •			
Priority under 35 U.S.C. § 119					
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies of the certified copies of the priorical bureau.	s have been received. s have been received in Application ity documents have been received i (PCT Rule 17.2(a)). of the certified copies not received	on No ed in this National Stage			
A V	nul				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	null 24 0-6 4) □ Interview Summary Paper No(s)/Mail Da 5) □ Notice of Informal P	(PTO-413) ate atent Application (PTO-152)			
Paper No(s)/Mail Date <u>12/05/05</u> .	6) Other:				

DETAILED ACTION

1. Applicant's arguments with respect to claims 1 and 5 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-11, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshihara et al. (USP 5,465,163) in view of Goldberg et al. (USP 6,223,181).

Regarding to claim 1, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2) comprising: inputting means (image reading unit 20 of fig 2) for inputting image data of a subject copy having a width in a main scanning direction larger than an A3-size width, see (col.6, lines 14-25); reading means (scanner 20 of fig 1 and 2) for divisively reading lines of said image data in a sub-scanning direction by dividing said image data into divisional lines of data having a predetermined width, (as shown in fig 5, one image original is divided and is read in four reading portion, col.5, lines 35-40).

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Yoshihara. does not disclose image rotating means for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines; an encoding means for encoding each of said rotated divisional lines into encoded data; and outputting means for outputting said encoded data.

Goldberg et al. in the same area of image reading and processing apparatus teaches image rotating means (image processing module 10, comprises a rotation module 20) for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines (col.3, lines 20-30); an encoding means (encoder/decoder module 18 of 1A) for encoding each of said rotated divisional lines into encoded data, col.3, lines 30-40); and outputting means (6 of fig 1A) for outputting said encoded data, (col.3, lines 1-5).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging apparatus of Yoshihara et al. to include: image rotating means for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines; an encoding means for encoding each of said rotated divisional lines into encoded data; and outputting means for outputting said encoded data.

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging device of Yoshihara et al. by the teaching of Goldberg et al., for the purpose to provide a system for performing rotation of an image, that is capable of reducing the memory needed for rotation while providing

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flexibility in image transmission and processing techniques that can be used to reconstruct the image.

Regarding to claim 2, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2), wherein said reading means (image reading device 20 of fig 3) divisively reads said lines of said image data in said sub-scanning direction by scanning a plurality of areas [original is divided and is read in plurality of area, col.5, line 35] of said image data sharing an overlapping width predetermined in said sub-scanning direction, (col.5, line 35-37, [overlap areas and broken lines, col.6, lines 14-25]).

Regarding to claim 3, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2), wherein said reading means (20 of fig 3) divisively reads said lines of said image data in said sub-scanning direction by dividing said image data of the subject copy at a predetermined page [original is divided and is read in plurality of area, col.5, line 35] into said divisional lines of data (col.5, lines 40-45)

Regarding to claim 4, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2), wherein said reading means (20 of fig 3) reductively reads image data of a subject copy having a width larger than said A3-size width by reducing said image data as a whole to said A3-size width, (col.6, lines 14-18) when said subject copy is not at a page to be divisively read, [original is divided and is read in plurality of area, col.5, line 35] (col.5, lines 40-45).

Regarding to claim 5, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2) a method comprising: inputting step (image reading unit 20 of fig 2) of inputting image data of a subject copy having a width in a main scanning direction larger than an A3-size width, see (col.6, lines 14-25); reading step (scanner 20 of fig 1 and 2) for divisively reading lines of said image data in a sub-scanning direction by dividing said image data into divisional lines of data having a predetermined width, (as shown in fig 5, one image original is divided and is read in four reading portion, col.5, lines 35-40).

Yoshihara does not disclose image rotating step for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines; an encoding step for encoding each of said rotated divisional lines into encoded data; and outputting means for outputting said encoded data.

Goldberg et al. in the same area of image reading and processing apparatus teaches image rotating means (image processing module 10, comprises a rotation module 20) for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines (col.3, lines 20-30); an encoding means (encoder/decoder module 18 of 1A) for encoding each of said rotated divisional lines into encoded data, col.3, lines 30-40); and outputting means (6 of fig 1A) for outputting said encoded data, (col.3, lines 1-5).

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Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging apparatus of Yoshihara et al. to include: image rotating means for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines; an encoding means for encoding each of said rotated divisional lines into encoded data; and outputting means for outputting said encoded data.

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging device of Yoshihara et al. by the teaching of Goldberg et al., for the purpose to provide a system for performing rotation of an image, that is capable of reducing the memory needed for rotation while providing flexibility in image transmission and processing techniques that can be used to reconstruct the image.

Regarding to claim 6, Yoshihara teaches or discloses the method (a image reading device of fig 1 and 2), wherein said reading step (image reading device 20 of fig 3) divisively reads said lines of said image data in said sub-scanning direction by scanning a plurality of areas [original is divided and is read in plurality of area, col.5, line 35] of said image data sharing an overlapping width predetermined in said sub-scanning direction, (col.5, line 35-37, [overlap areas and broken lines, col.6, lines 14-25]).

Regarding to claim 7, Yoshihara teaches or discloses the method (a image reading device of fig 1 and 2), wherein said reading step (20 of fig 3) divisively reads

said lines of said image data in said sub-scanning direction by dividing said image data of the subject copy at a predetermined page [original is divided and is read in plurality of area, col.5, line 35] into said divisional lines of data (col.5, lines 40-45)

Regarding to claim 8, Yoshihara teaches or discloses the method (a image reading device of fig 1 and 2), wherein said reading step (20 of fig 3) reductively reads image data of a subject copy having a width larger than said A3-size width by reducing said image data as a whole to said A3-size width, (col.6, lines 14-18) when said subject copy is not at a page to be divisively read, [original is divided and is read in plurality of area, col.5, line 35] (col.5, lines 40-45).

With respect to claim 9, Yoshihara et al. teaches the facsimile device (fig 1-3) wherein said reading means (read image 20 of fig 3) detects whether the width of said subject copy in the main scanning direction is larger than an A3-size width, (co.5, lines 5, 30-35) and if the width of said subject copy is larger than an A3-size width, (original image fig 6(1), which is larger in size than A3-size divided in four portion, reduce into one image having the size of A3-size image, col.6, lines 150 20) automatically dividing said subject copy in the sub-scanning direction into at least two portions (fig 5, a divided original image into four different portion).

With respect to claim 10, Yoshihara et al. teaches the facsimile device (fig 1-3), further comprising user operation means, (operation unit 10 of fig 1) wherein a user

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specifies a page dividing mode through said user operation means, (col.4, lines 5-10) and said reading means (20 of fig 1) performs said automatic dividing if the user specifies said page dividing mode, (col.4, lines 55-60).

With respect to claim 11, Yoshihara et al. teaches the facsimile device (fig 1-3), wherein the divisional lines of data (col.4, lines 60-65) corresponding to the encoded data out by said outputting means (image out put 40 of fig 3) are un-changes in scale (the outputted image is not changed in size, (col.6, line 45-50).

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Negussie Worku whose telephone number is 57272-7472. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on 571-272-7471. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Negussie Worku

01/278/06

MARK WALLERSON PRIMARY EXAMINER